SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DISINFECTANT CLEANER 2.0
Other means of identification : Not applicable
Recommended use : Disinfectant
Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 1.56 %

Company : Ecolab Inc.
1 Ecolab Place
St. Paul, Minnesota USA 55102
1-800-352-5326

Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 04/28/2017

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD
Flammable liquids : Category 4
Acute toxicity (Dermal) : Category 4
Eye irritation : Category 2A

Product AT USE DILUTION
Acute toxicity (Dermal) : Category 4
Eye irritation : Category 2A

GHS label elements

Product AS SOLD
Hazard pictograms :

Signal Word : Warning

Hazard Statements : Combustible liquid. Harmful in contact with skin. Causes serious eye irritation.

Precautionary Statements : Prevention:
Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection.
Response:
IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/
SAFETY DATA SHEET

DISINFECTANT CLEANER 2.0

attention. Wash contaminated clothing before reuse. In case of fire:
Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
Store in a well-ventilated place. Keep cool.

Disposal:
Dispose of contents/container to an approved waste disposal plant.

Product AT USE DILUTION

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>1.875</td>
</tr>
<tr>
<td>Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>1.25</td>
</tr>
</tbody>
</table>

Product AS SOLD

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>0.029</td>
</tr>
<tr>
<td>Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>0.019</td>
</tr>
</tbody>
</table>

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture: Mixture

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. Use
a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops and persists.

If swallowed: Rinse mouth. Get medical attention if symptoms occur.

If inhaled: Get medical attention if symptoms occur.

Protection of first-aiders: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed: See Section 11 for more detailed information on health effects and symptoms.

**Product AT USE DILUTION**

In case of eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops and persists.

If swallowed: Rinse mouth. Get medical attention if symptoms occur.

If inhaled: Get medical attention if symptoms occur.

**SECTION 5. FIRE-FIGHTING MEASURES**

**Product AS SOLD**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Fire Hazard
Keep away from heat and sources of ignition.
Flash back possible over considerable distance.

Hazardous combustion products: Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

Special protective equipment for fire-fighters: Use personal protective equipment.

Specific extinguishing methods: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.
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DISINFECTANT CLEANER 2.0

**Product AS SOLD**

Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up: Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

**Product AT USE DILUTION**

Personal precautions, protective equipment and emergency procedures: Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

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**SECTION 7. HANDLING AND STORAGE**

**Product AS SOLD**

Advice on safe handling: Avoid contact with skin and eyes. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Wash hands thoroughly after handling.


Storage temperature: 0 °C to 50 °C

**Product AT USE DILUTION**

Advice on safe handling: Avoid contact with skin and eyes. Wash hands thoroughly after handling.

Conditions for safe storage: Keep out of reach of children. Store in suitable labeled containers.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Product AS SOLD**

Ingredients with workplace control parameters: Contains no substances with occupational exposure limit values.

Engineering measures: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
SAFETY DATA SHEET

DISINFECTANT CLEANER 2.0

Personal protective equipment

Eye protection : Wear eye protection/ face protection.
Hand protection : Wear the following personal protective equipment:
    Standard glove type.
    Gloves should be discarded and replaced if there is any indication of
    degradation or chemical breakthrough.
Skin protection : No special protective equipment required.
Respiratory protection : No personal respiratory protective equipment normally required.
Hygiene measures : Handle in accordance with good industrial hygiene and safety
    practice. Wash face, hands and any exposed skin thoroughly after
    handling.

Product AT USE DILUTION

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations
    below occupational exposure standards.

Personal protective equipment

Eye protection : Safety glasses with side-shields
Hand protection : No special protective equipment required.
Skin protection : No special protective equipment required.
Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>clear, green</td>
<td>green</td>
</tr>
<tr>
<td>Odor</td>
<td>citrus</td>
<td>citrus</td>
</tr>
<tr>
<td>pH</td>
<td>10.0 - 12.0, (100 %)</td>
<td>9.0 - 11.5</td>
</tr>
<tr>
<td>Flash point</td>
<td>88 °C, Does not sustain combustion.</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>0.9755 - 1.0155</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

DISINFECTANT CLEANER 2.0

Water solubility: soluble
Solubility in other solvents: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: No data available
Thermal decomposition: No data available
Viscosity, kinematic: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Molecular weight: No data available
VOC: No data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Heat, flames and sparks.
Incompatible materials: None known.
Hazardous decomposition products: Decomposition products may include the following materials:
- Carbon oxides
- Nitrogen oxides (NOx)
- Sulfur oxides
- Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD
Eyes: Causes serious eye irritation.
Skin: Harmful in contact with skin.
Ingestion: Health injuries are not known or expected under normal use.
Inhalation: Health injuries are not known or expected under normal use.
Chronic Exposure: Health injuries are not known or expected under normal use.

Product AT USE DILUTION
Eyes: Causes serious eye irritation.
Skin: Harmful in contact with skin.
Ingestion: Health injuries are not known or expected under normal use.
**SAFETY DATA SHEET**

**DISINFECTANT CLEANER 2.0**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td>Chronic Exposure</td>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
</tbody>
</table>

**Experience with human exposure**

**Product AS SOLD**
- **Eye contact**: Redness, Pain, Irritation
- **Skin contact**: No information available.
- **Ingestion**: No symptoms known or expected.
- **Inhalation**: No symptoms known or expected.

**Product AT USE DILUTION**
- **Eye contact**: Redness, Pain, Irritation
- **Skin contact**: No information available.
- **Ingestion**: No symptoms known or expected.
- **Inhalation**: No symptoms known or expected.

**Toxicity**

**Product AS SOLD**

<table>
<thead>
<tr>
<th>Toxicity Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>Acute toxicity estimate: &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>Acute toxicity estimate: 1,200 mg/kg</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No skin irritation</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Eye irritation</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Reproductive effects</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Ingredients**

- **Acute inhalation toxicity**: Didecyl Dimethyl Ammonium Chloride 4 h LC50 Rat: 0.07 mg/l
- **Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride**: 4 h LC50 Rat: 0.054 mg/l
SECTION 12. ECOLOGICAL INFORMATION

**Product AS SOLD**  
**Ecotoxicity**

Environmental Effects : This product has no known ecotoxicological effects.

**Product**

Toxicity to fish : No data available
Toxicity to daphnia and other aquatic invertebrates : No data available
Toxicity to algae : No data available

**Ingredients**

Toxicity to fish : alcohols, c12-15, ethoxylated  
96 h LC50 Pimephales promelas (fathead minnow): 1.4 mg/l

Didecyl Dimethyl Ammonium Chloride  
96 h LC50 Fish: 1 mg/l

Toxicity to daphnia and other aquatic invertebrates : Alkyl (C14 50%; C12 40%; C16 10%) dimethyl benzyl ammonium chloride  
48 h EC50 Daphnia magna (Water flea): 0.016 mg/l

**Persistence and degradability**

**Product AS SOLD**

Not applicable - Biocide

**Product AS SOLD**

Biodegradable/Eliminated from aquatic environment

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

**Product AS SOLD**

**Disposal methods** : Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

**Disposal considerations** : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.
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DISINFECTANT CLEANER 2.0

Product AT USE DILUTION

Disposal methods
Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations
Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)
Not dangerous goods

Sea transport (IMDG/IMO)
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number : 47371-37-1677
EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

United States TSCA Inventory : 900850
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DISINFECTANT CLEANER 2.0

On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL

Australia Inventory of Chemical Substances (AICS) :
not determined

New Zealand. Inventory of Chemical Substances :
not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory :
not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD
NFPA:                              HMIS III:

Flammability

Health 2 2 0                          HEALTH 2

Instability

Special hazard.

FLAMMABILITY 2

PHYSICAL HAZARD 0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION
Issuing date: 04/28/2017
Version: 1.0
Prepared by: Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.